

VGN-FS780/FS760/FS740/FS720/FS775P/FS745P/FS770/FS750P/FS730/FS715/FS742/FS710/FS770FG/FS750F/FS730F/FS715F/  
 FS755FP/FS740FP/FS710FP/FS760Q/FS740Q/FS790P/FS790B/FS790/FS790BH  
 VGN-FS315Z/FS395VP/FS315M/FS315B/FS315E/FS315SR/FS315MR/FS315H/FS315S  
 VGN-FS38C/FS35C/FS38GP/FS38SP/FS38LP/FS38TP/FS35GP/FS35SP/FS35LP/FS35TP

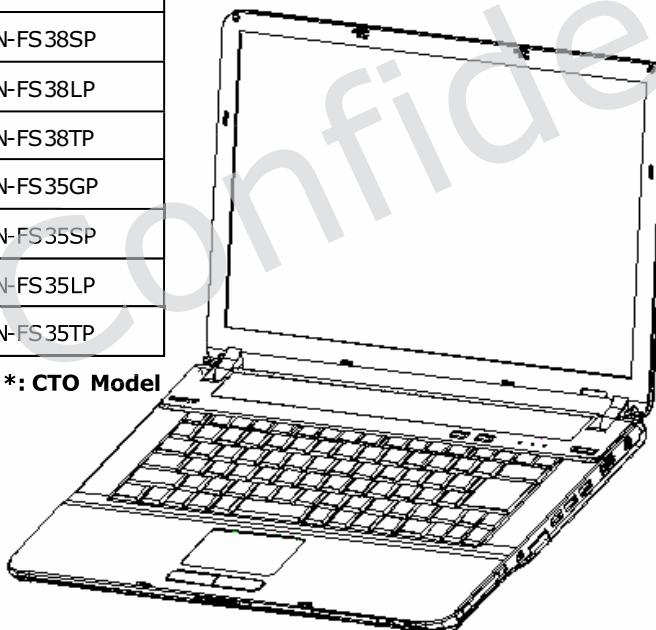
# SERVICE MANUAL

Ver.4-2005K

## Revision History

<b>J</b>	VGN-FS52B	<b>AM</b>	VGN-FS750F
	VGN-FS22B		VGN-FS730F
	VGN-FS32B		VGN-FS715F
	VGN-FS22VB		VGN-FS755FP
	VGN-FS92S		VGN-FS740FP
	VGN-FS92PS *		VGN-FS710FP
	VGN-FS92S *		VGN-FS760Q
<b>AM</b>	VGN-FS780		VGN-FS740Q
	VGN-FS760		VGN-FS790P *
	VGN-FS740		VGN-FS790B *
	VGN-FS720		VGN-FS790 *
	VGN-FS775P		VGN-FS790BH *
	VGN-FS745P	<b>EU</b>	VGN-FS315Z
	VGN-FS770		VGN-FS395VP
	VGN-FS750P		VGN-FS315M
	VGN-FS730		VGN-FS315B
	VGN-FS715		VGN-FS315E
<b>EU</b>	VGN-FS742		VGN-FS315SR
	VGN-FS710		VGN-FS315MR
	VGN-FS770FG		VGN-FS315H

<b>EU</b>	VGN-FS315S
	VGN-FS38C
	VGN-FS35C
	VGN-FS38GP
	VGN-FS38SP
	VGN-FS38LP
	VGN-FS38TP
	VGN-FS35GP
	VGN-FS35SP
	VGN-FS35LP
	VGN-FS35TP



• Design and specifications are subject to change without notice.

**PERSONAL COMPUTER**  
**SONY®**

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### **Caution Markings for Lithium/Ion Battery**

The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the Manufacturer'

**CAUTION:** The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C(212°F) or incinerate. Dispose of used battery promptly. Keep away from children..

**CAUTION:** Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilati on or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen g<sub>s</sub>, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection..

## **Service and Inspection Precautions**

### **\*1. Obey precautionary markings and instructions**

\* Labels and stamps on the cabinet, \*chassis, and components are as \*requiring special precautions. Be \*sure to observe these precautions, \*as well as all precautions listed in \*the operating manual and other \*associated documents..

### **\*2. Use designated parts only**

\*The set's components possess important safety \*characteristics, such as noncombustibility and the \*ability to tolerate large voltages. \* Be sure that replacement parts possess the same \*safety characteristics as the originals. Also \*remember that the mark, \*which appears in circuit \*diagrams and parts lists, denotes components that \*have particularly important safety functions be extra \*sure to use only the designated components.

### **\*3. Always follow the original design when**

**\*mounting parts and routing wires**

\*  
\*The original layout includes various \*safety features, such as inclusion of \*insulating materials (tubes and tape) and \*the mounting of parts above the printer \*board. In addition, internal wiring has \*been routed and clamped so as to keep it

away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

### **4. Inspect after completing service**

After servicing, inspect to make Sure that all screws, components, And wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

### **5. When replacing chip components..**

Never reuse components. Also remember that the negative side of tantalum capacitors is easil: Damaged by heat.,

### **6. When handing flexible print boards..**

- The temperature of the soldering-Iron tip shoul be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force

**Caution:** Remember that hard disk drives are easily damaged by vibration. Always handle with care.

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# CHAPTER1. SPECIFICATIONS

## 1-1. Specifications

J					
	VGN-FS52B	VGN-FS22B	VGN-FS32B	VGN-FS22VB	VGN-FS92S
CPU	Pentium-M 750(Do1.86)	Celeron-M 360(Do1.4)	Celeron-M 370(Do1.5)	Celeron-M 360(Do1.4)	Celeron-M 360(Do1.4) *1)
Graphic	915GM	910GML	910GML	910GML	910GML *2)
LCD	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black) *3)
HDD	100GB	80GB	100GB	80GB	40GB *4)
MEMORY(Slot1)	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	256MB DDR333
MEMORY(Slot2)	-	-	-	-	256MB DDR333 *5)
QUANTITY(STANDARDNAME)	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB
OPT-DRIVE	Super Multi Drive +/- DL	Super Multi Drive DL	Super Multi Drive DL	Super Multi Drive DL	Combo Super Multi Drive +/- DL/Combo/DVD-ROM *6)
AC adaptor	AC19V11	AC19V11	AC19V11	AC19V9	AC19V11 AC19V11
Battery	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA BP2SA
Wireless LAN	O	O	O	O	O/X
Memory Card Adapter	O	O	O	O	O
USB FLOPPY DISK DRIVE	O	X	O	X	X X
OS	XP Home	XP Home	XP Home	XP Home	XP Home/XP Pro

\*1)Celeron-M 360J,Pentium-M 740,Pentium-M750,Pentium-M 770 \*2)NV44M,915GM,910GML \*3)15.4"WSXGA+(CB),15.4"WXGA(HC) \*4)120GB,100GB,80GB,60GB,40GB \*5)512MB\*2,256MB\*2,256MB\*1

\*6)Celeron-M 370,Pentium-M 740,Pentium-M 750,Pentium-M 760,Pentium-M 770,Pentium-M780 \*7)NV44M,915GM,910GML \*8)120GB,100GB,80GB,60GB,40GB

\*9)1024\*1,1024\*2,512MB\*1,512MB\*2,256MB\*2,256\*1 \*10)Combo,DVD+/-RW DL,DVD-ROM \*11)802.11b/g, 802.11a/b/g

△[COR]

EU									
	VGN-FS315Z	VGN-FS395VP	VGN-FS315M	VGN-FS315B	VGN-FS315E	VGN-FS315SR	VGN-FS315MR	VGN-FS315H	VGN-FS315S
CPU	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Celeron-M 380(Do1.6)	Pentium-M 750(Do1.86)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Pentium-M 750(Do1.86)
Graphic	NV44M	NV44M	NV44M	915GM	910GML	NV44M	NV44M	NV44M	NV44M
LCD	15.4"WXGA (Clear Black)								
HDD	120GB	80GB	80GB	80GB	80GB	100GB	80GB	100GB	100GB
MEMORY(Slot1)	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	256MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333
MEMORY(Slot2)	512MB DDR333	-	-	-	256MB DDR333	512MB DDR333	-	512MB DDR333	512MB DDR333
QUANTITY(STANDARD/MAX)	1GB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	1GB/2GB	512MB/2GB	1GB/2GB	1GB/2GB
OPT-DRIVE	DVD+/-RW DL								
AC adaptor	AC19V9	AC19V11	AC19V11	AC19V11	AC19V11	AC19V12	AC19V12	AC19V11	AC19V11
Battery	BP2SA								
Wireless LAN	O	O	O	O	O	O	O	O	O
Memory Card Adapter	X	X	X	X	X	X	X	X	X
USB FLOPPY DISK DRIVE	X	X	X	X	X	X	X	X	X
OS	XP Home	XP Pro	XP Home						

[COR]

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AO										
	VGN-FS38C	VGN-FS35C	VGN-FS38GP	VGN-FS38SP	VGN-FS38LP	VGN-FS38TP	VGN-FS35GP	VGN-FS35SP	VGN-FS35LP	VGN-FS35TP
CPU	Pentium-M 760(Do2.0)	Pentium-M 750(Do1.86)	Pentium-M 770(Do2.13)	<-	<-	<-	Pentium-M 750(Do1.86)	<-	<-	<-
Graphic	NV44M	NV44M	NV44M	<-	<-	<-	NV44M	<-	<-	<-
LCD	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	<-	<-	<-	15.4"WXGA (High Brightness)	<-	<-	<-
HDD	80GB	60GB	100GB	<-	<-	<-	60GB	<-	<-	<-
MEMORY(Slot1)	512MB DDR333	256MB DDR333	512MB DDR333	<-	<-	<-	512MB DDR333	<-	<-	<-
MEMORY(Slot2)	-	256MB DDR333	-	<-	<-	<-	-	<-	<-	<-
QUANTITY(STANDARD/MAX)	512MB/2GB	512MB/2GB	512MB/2GB	<-	<-	<-	512MB/2GB	<-	<-	<-
OPT-DRIVE	DVD+/-RW DL	Combo	DVD+/-RW DL	<-	<-	<-	DVD+/-RW DL	<-	<-	<-
AC adaptor	AC19V10	AC19V10	AC19V10	<-	<-	<-	AC19V10	<-	<-	<-
Battery	BP2SA	BP2SA	BP2SA	<-	<-	<-	BP2SA	<-	<-	<-
Wireless LAN	O	O	O	<-	<-	<-	O	<-	<-	<-
Memory Card Adapter	X	X	X	<-	<-	<-	X	<-	<-	<-
USB FLOPPY DISK DRIVE	X	X	X	<-	<-	<-	X	<-	<-	<-
OS	XP Home	XP Home	XP Pro	<-	<-	<-	XP Pro	<-	<-	<-

• The model that is accompanied by asterisk(\*) is the CTO model.

For the equipment configuration, refer to the CTO Information.

• The trademarks or registered trademarks of above ,refer to page2.

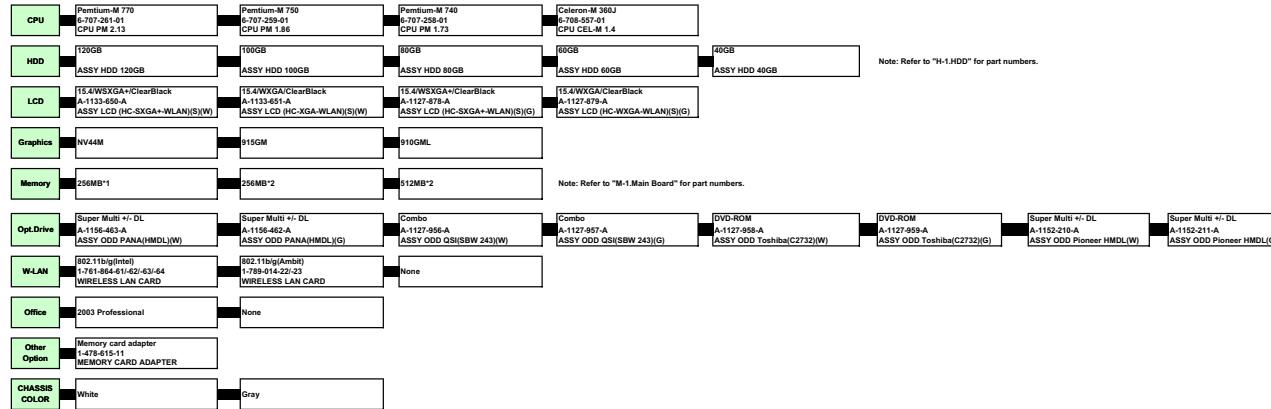
[COR]

# 1-2.CTO Information

Model name:VGN-FS92PS

Model number:PCG-7D2N (W/ W-LAN), PCG-7D3N(W/O W-LAN)

OS:WinXP Pro

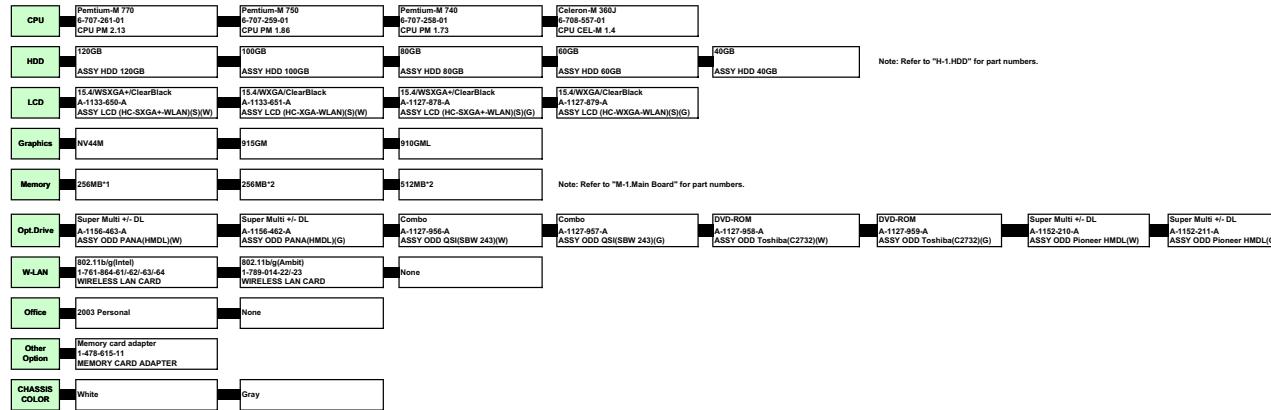


Note: Refer to "H-1.HDD" for part numbers.

Model name:VGN-FS92PS

Model number:PCG-7D2N (W/ W-LAN), PCG-7D3N(W/O W-LAN)

OS:WinXP Home



Note: Refer to "H-1.HDD" for part numbers.

Model name: VGN-FS790P  
 Model number: PCG-7D1L(802.11a/b/g),PCG-7D2L(802.11b/g)

OS:WinXP Pro

CPU	Pentium-M 780 6-707-173-01 CPU PM 2.26	Pentium-M 770 6-707-261-01 CPU PM 2.13	Pentium-M 760 6-707-260-01 CPU PM 2.0	Pentium-M 750 6-707-259-01 CPU PM 1.86	Pentium-M 740 6-707-258-01 CPU PM 1.73	Celeron-M 370J 6-708-558-01 CPU CEL-M 1.5
HDD	120GB ASYY HDD 120GB	100GB ASYY HDD 100GB	80GB ASYY HDD 80GB	60GB ASYY HDD 60GB	40GB ASYY HDD 40GB	Note: Refer to "H-1.HDD" for part numbers.
LCD	15.4WXGA/High Brightness A-1153-449-A ASYY LCD (BR-WLAN)(Q)(S)(W)	15.4WXGA/ClearBlack A-113-651-A ASYY LCD (HC-WLAN)(S)(W)				
Graphics	NV44M	915GM	910GML			
Memory	1024MB*1	1024MB*2	256MB*1	512MB*1	512MB*2	Note: Refer to "M-1.Main Board" for part number
Opt.Drive	Combo A-1127-258-A ASYY ODD OS(SBW 243)(W)	DVD+RW A-1127-951-A ASYY ODD SONY(DVD+/-RW)(W)	DVD+RW A-1127-952-A ASYY ODD Toshiba(C2732)(W)	DVD+RW A-1127-953-A ASYY ODD Pioneer(DVD+/-RW)(W)	DVD+RW A-1152-207-A ASYY ODD PANA(DVD+/-RW)(W)	DVD+RW A-1152-208-A ASYY ODD SONY(DVD+/-RW)(W)
W-LAN	802.11b(g)(Intel) 8-761-454-51 WIRELESS LAN CARD	802.11b(g) 8-761-455-51 WIRELESS LAN CARD				
CHASSIS COLOR	White					

Model name: VGN-FS790B  
 Model number: PCG-7D1L(802.11a/b/g),PCG-7D2L(802.11b/g)

OS:WinXP Pro

CPU	Pentium-M 780 6-707-173-01 CPU PM 2.26	Pentium-M 770 6-707-261-01 CPU PM 2.13	Pentium-M 760 6-707-260-01 CPU PM 2.0	Pentium-M 750 6-707-259-01 CPU PM 1.86	Pentium-M 740 6-707-258-01 CPU PM 1.73	Celeron-M 370J 6-708-558-01 CPU CEL-M 1.5
HDD	120GB ASYY HDD 120GB	100GB ASYY HDD 100GB	80GB ASYY HDD 80GB	60GB ASYY HDD 60GB	40GB ASYY HDD 40GB	Note: Refer to "H-1.HDD" for part numbers.
LCD	15.4WXGA/High Brightness A-1153-449-A ASYY LCD (BR-WLAN)(Q)(S)(W)	15.4WXGA/ClearBlack A-113-651-A ASYY LCD (HC-WLAN)(S)(W)				
Graphics	NV44M	915GM	910GML			
Memory	1024MB*1	1024MB*2	256MB*1	512MB*1	512MB*2	Note: Refer to "M-1.Main Board" for part number
Opt.Drive	Combo A-1127-258-A ASYY ODD OS(SBW 243)(W)	DVD+RW A-1127-951-A ASYY ODD SONY(DVD+/-RW)(W)	DVD-ROM A-1127-952-A ASYY ODD Toshiba(C2732)(W)	DVD+RW A-1152-205-A ASYY ODD Pioneer(DVD+/-RW)(W)	DVD+RW A-1152-207-A ASYY ODD PANA(DVD+/-RW)(W)	DVD+RW A-1152-208-A ASYY ODD SONY(DVD+/-RW)(W)
W-LAN	802.11b(g)(Intel) 8-761-454-51 WIRELESS LAN CARD	802.11b(g) 8-761-455-51 WIRELESS LAN CARD				
CHASSIS COLOR	White					

Model name: VGN-FS790  
 Model number: PCG-7D1L(802.11a/b/g),PCG-7D2L(802.11b/g)

OS:WinXP Home

CPU	Pentium-M 780 6-707-173-01 CPU PM 2.26	Pentium-M 770 6-707-261-01 CPU PM 2.13	Pentium-M 760 6-707-260-01 CPU PM 2.0	Pentium-M 750 6-707-259-01 CPU PM 1.86	Pentium-M 740 6-707-258-01 CPU PM 1.73	Celeron-M 370J 6-708-558-01 CPU CEL-M 1.5
HDD	120GB ASYY HDD 120GB	100GB ASYY HDD 100GB	80GB ASYY HDD 80GB	60GB ASYY HDD 60GB	40GB ASYY HDD 40GB	Note: Refer to "H-1.HDD" for part numbers.
LCD	15.4WXGA/High Brightness A-1153-449-A ASYY LCD (BR-WLAN)(Q)(S)(W)	15.4WXGA/ClearBlack A-113-651-A ASYY LCD (HC-WLAN)(S)(W)				
Graphics	NV44M	915GM	910GML			
Memory	1024MB*1	1024MB*2	256MB*1	512MB*1	512MB*2	Note: Refer to "M-1.Main Board" for part number
Opt.Drive	Combo A-1127-258-A ASYY ODD OS(SBW 243)(W)	DVD+RW A-1127-951-A ASYY ODD SONY(DVD+/-RW)(W)	DVD-ROM A-1127-952-A ASYY ODD Toshiba(C2732)(W)	DVD+RW A-1152-205-A ASYY ODD Pioneer(DVD+/-RW)(W)	DVD+RW A-1152-207-A ASYY ODD PANA(DVD+/-RW)(W)	DVD+RW A-1152-208-A ASYY ODD SONY(DVD+/-RW)(W)
W-LAN	802.11b(g)(Intel) 8-761-454-51 WIRELESS LAN CARD	802.11b(g) 8-761-455-51 WIRELESS LAN CARD				
CHASSIS COLOR	White					

Model name: VGN-FS790BH

Model number: PCG-7D1L(802.11a/b/g),PCG-7D2L(802.11b/g)

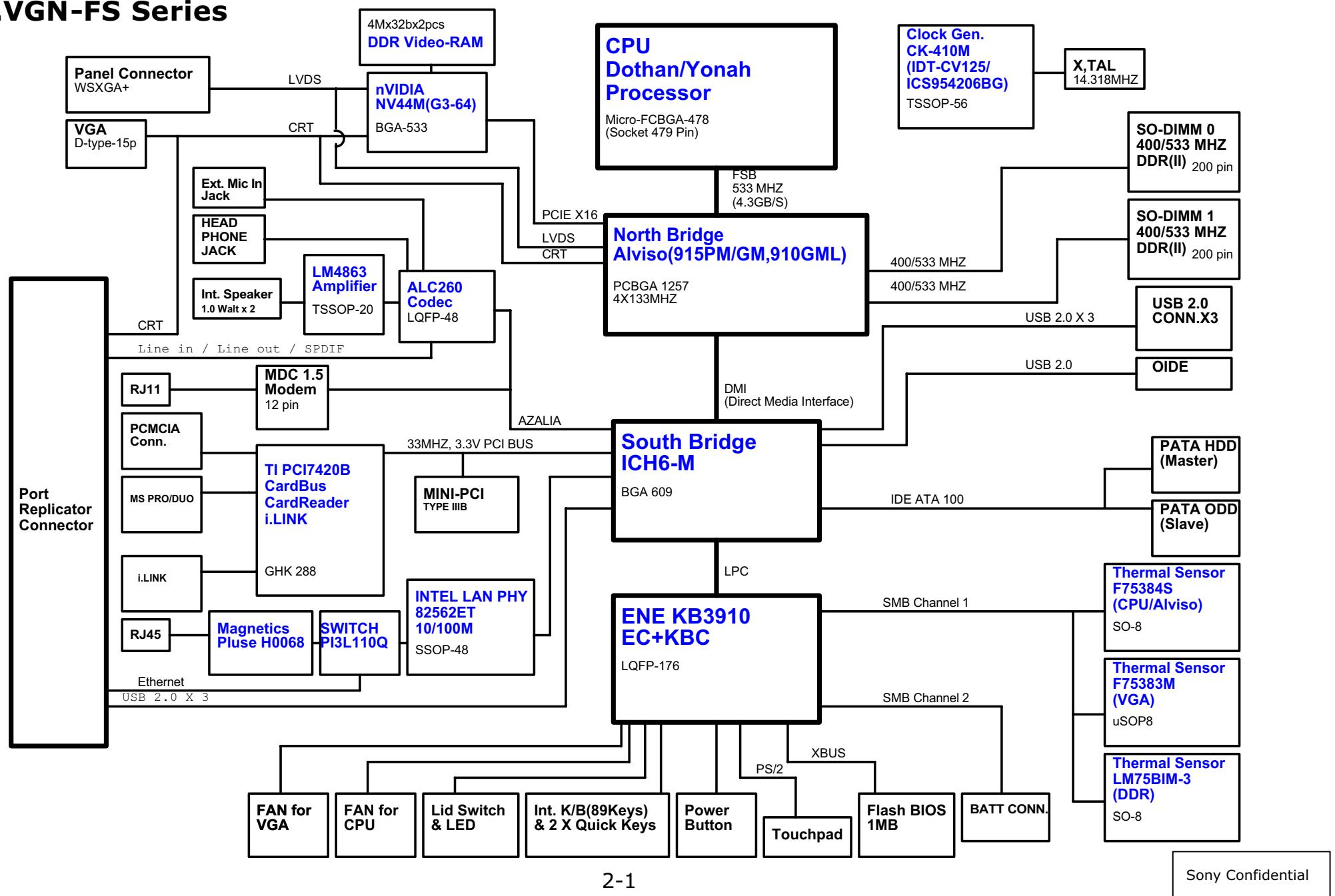
OS:WinXP Home

CPU	Pentium-M 780 6-707-173-01 CPU PM 2.26	Pentium-M 770 6-707-261-01 CPU PM 2.13	Pentium-M 760 6-707-260-01 CPU PM 2.0	Pentium-M 750 6-707-259-01 CPU PM 1.86	Pentium-M 740 6-707-258-01 CPU PM 1.73	Celeron-M 370J 6-708-558-01 CPU CEL-M 1.5
HDD	120GB ASYY HDD 120GB	100GB ASYY HDD 100GB	80GB ASYY HDD 80GB	60GB ASYY HDD 60GB	40GB ASYY HDD 40GB	Note: Refer to "H-1.HDD" for part numbers.
LCD	15.4WXGA/High Brightness A-1153-449-A ASYY LCD (BR-WLAN)(Q)(S)(W)	15.4WXGA/ClearBlack A-113-651-A ASYY LCD (HC-WLAN)(S)(W)				
Graphics	NV44M	915GM	910GML			
Memory	1024MB*1	1024MB*2	256MB*1	512MB*1	512MB*2	Note: Refer to "M-1.Main Board" for part number
Opt.Drive	Combo A-1127-258-A ASYY ODD OS(SBW 243)(W)	DVD+RW A-1127-951-A ASYY ODD SONY(DVD+/-RW)(W)	DVD-ROM A-1127-952-A ASYY ODD Toshiba(C2732)(W)	DVD+RW A-1152-205-A ASYY ODD Pioneer(DVD+/-RW)(W)	DVD+RW A-1152-207-A ASYY ODD PANA(DVD+/-RW)(W)	DVD+RW A-1152-208-A ASYY ODD SONY(DVD+/-RW)(W)
W-LAN	802.11b(g)(Intel) 8-761-454-51 WIRELESS LAN CARD	802.11b(g) 8-761-455-51 WIRELESS LAN CARD				
CHASSIS COLOR	White					

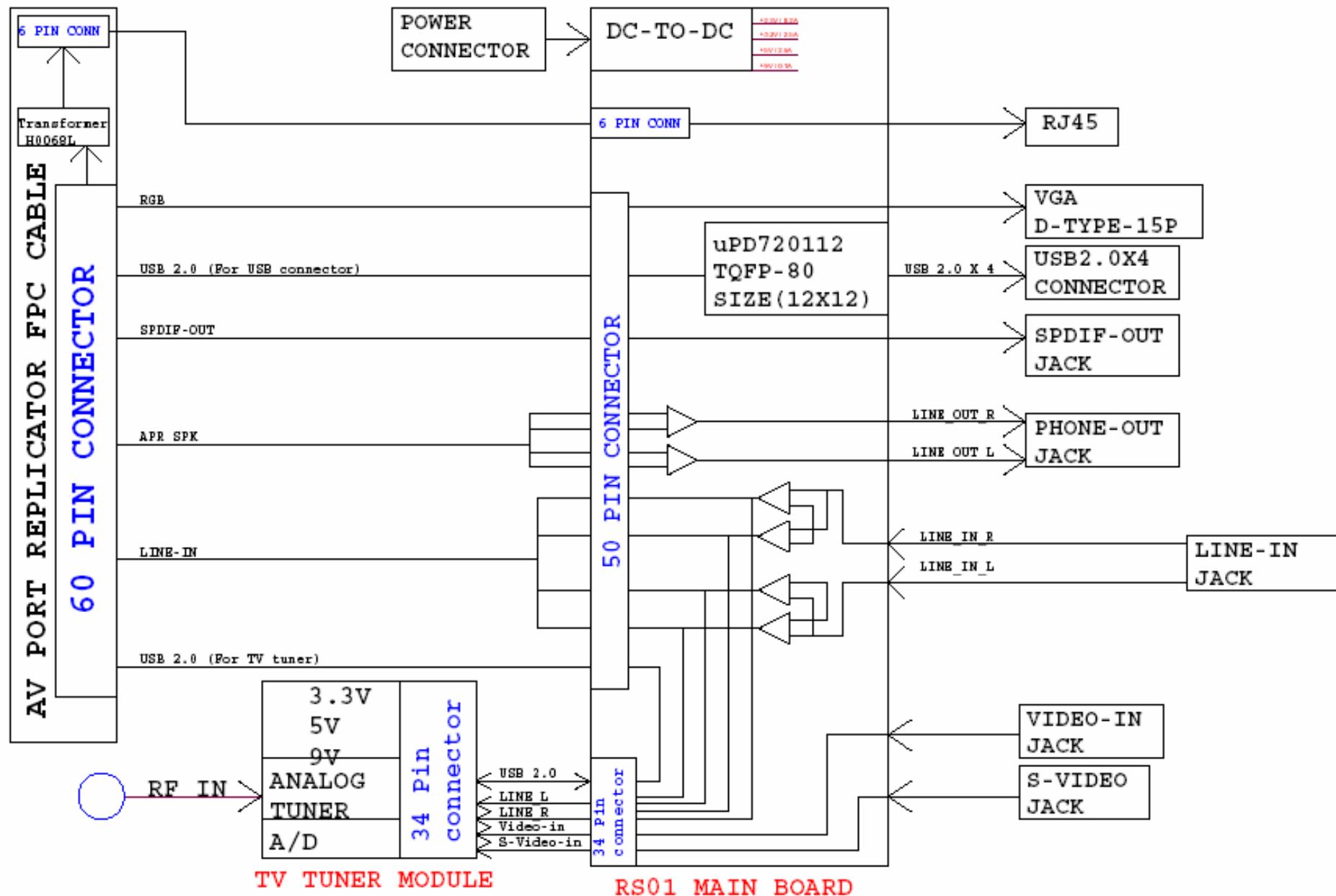
# CHAPTER2.

## BLOCK DIAGRAM

### 2-1.VGN-FS Series



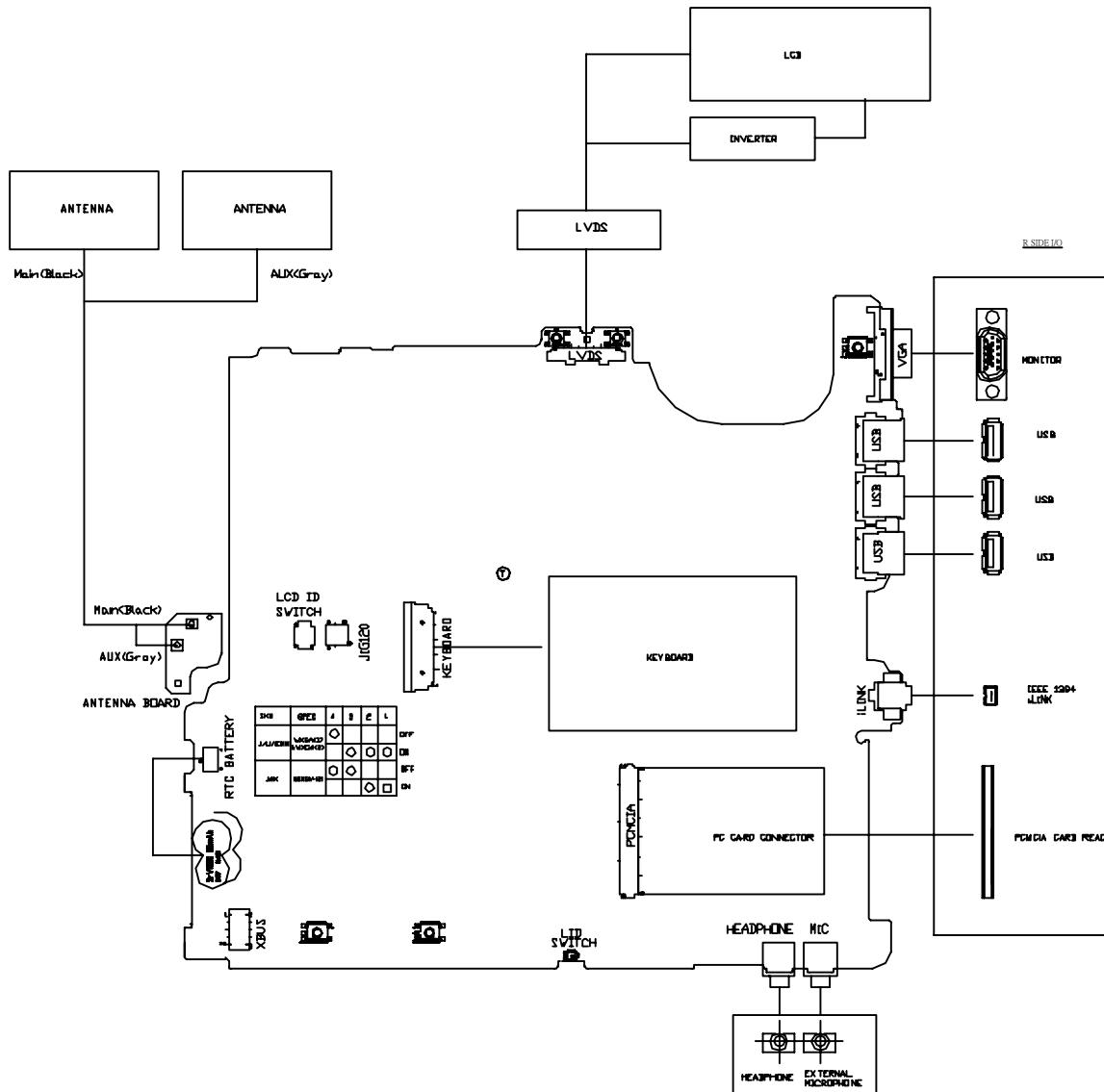
## 2-2. Port Replicator (VGP-PRFS10V)



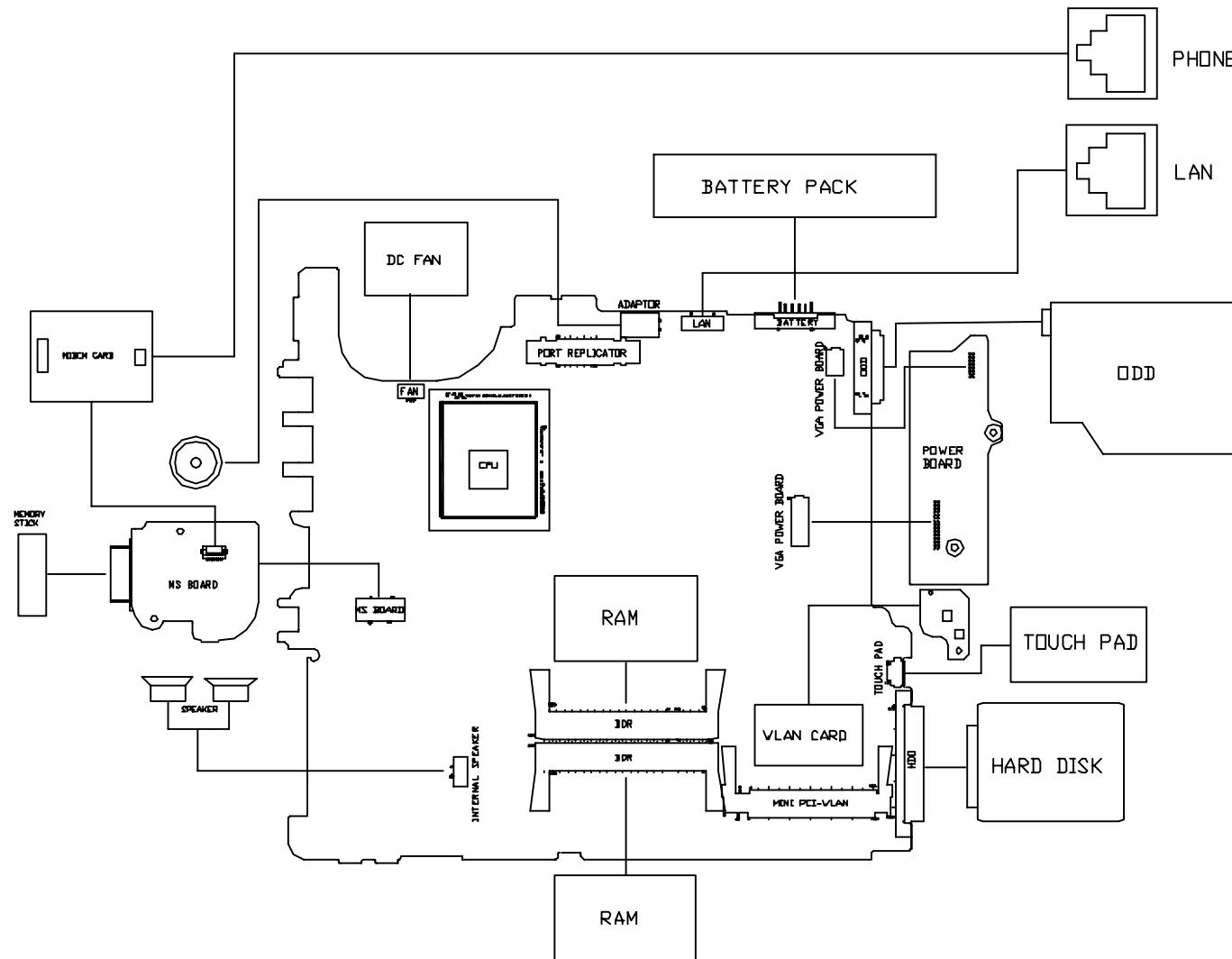
# CHAPTER3.

## FRAME HARNESS DIAGRAM

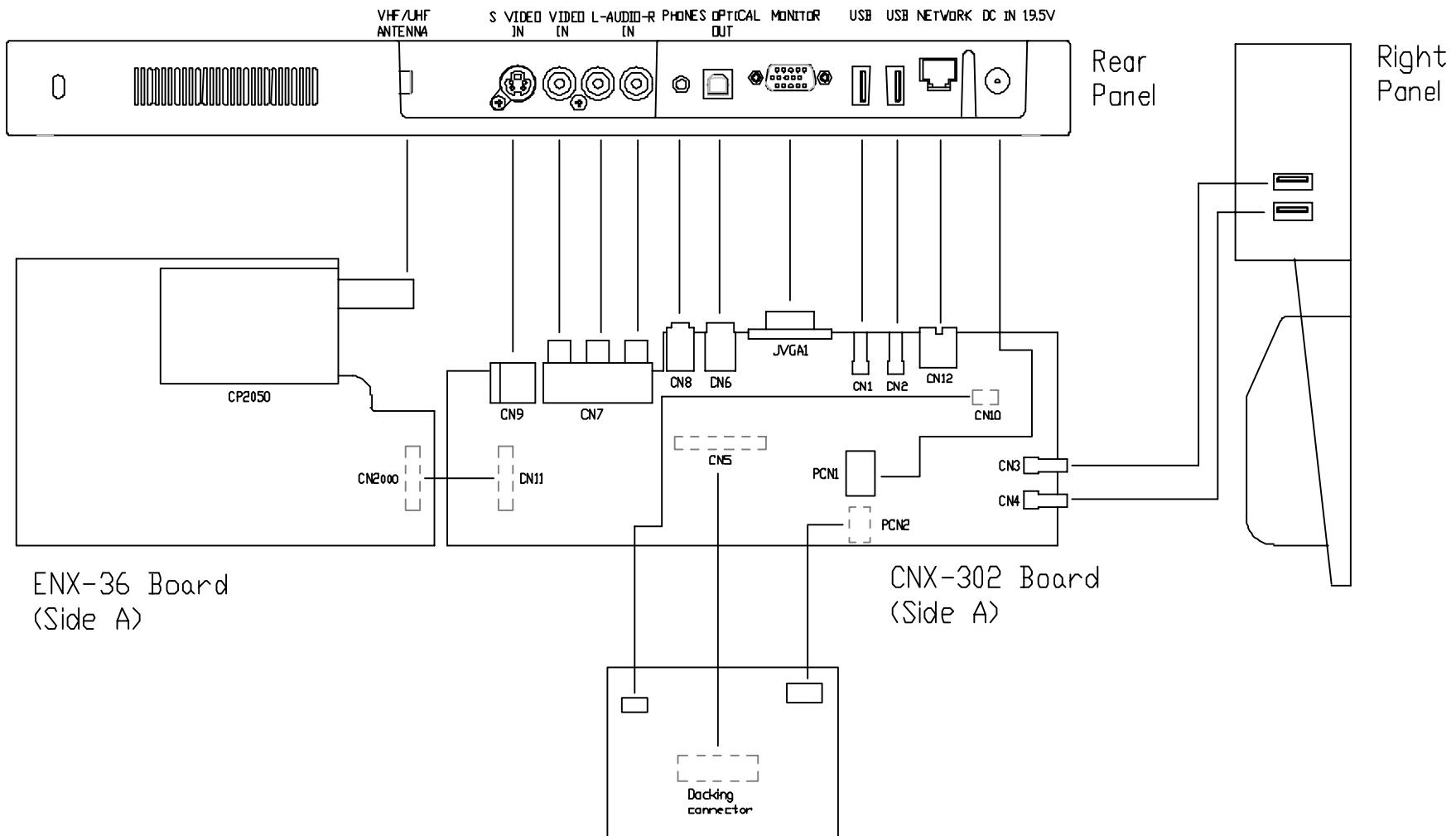
### 3-1 VGN-FS Series (TOP)



### 3-1 VGN-FS Series (BOTTOM)



## 3-2 Port Replicator (VGP-PRFS10V)



# CHAPTER 4

## EXPLODED VIEWS AND PARTS LIST

· The parts id compiled by blocks of a Palmrest and bottom etc.

The sections of the parts list are different depending on the model.

Please refer to list of contents shown in the below.

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#### Screws

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#### ACCESSORIES

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#### SUBSTITUTION PARTS LIST

T-1.SUBSTITUTION PARTS LIST..... 4-20

#### DIP Switch

..... 4-22

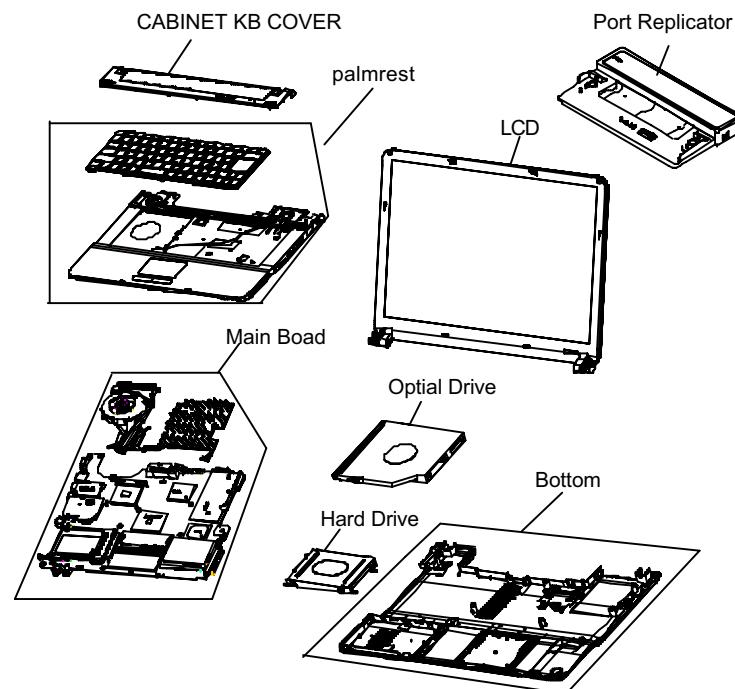
#### NOTE:

· The mechanical parts with no reference number in the exploded views are not supplied.

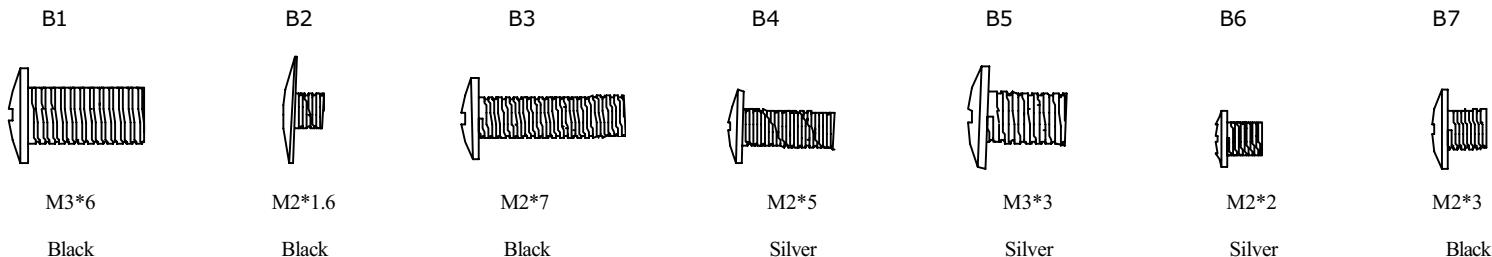
· When two or more parts are shown, use the part described first as the main part.

· The parts marked "&" are the "Customer Replacable Parts(CRP)" that can be replaced by Filed Customer Support. Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replacable Parts(CRP), or the non-targetted parts by referring to the exploded view.

The components identified by mark  or dotted line with mark  are critical for safely.  
Replace only with part number specified.

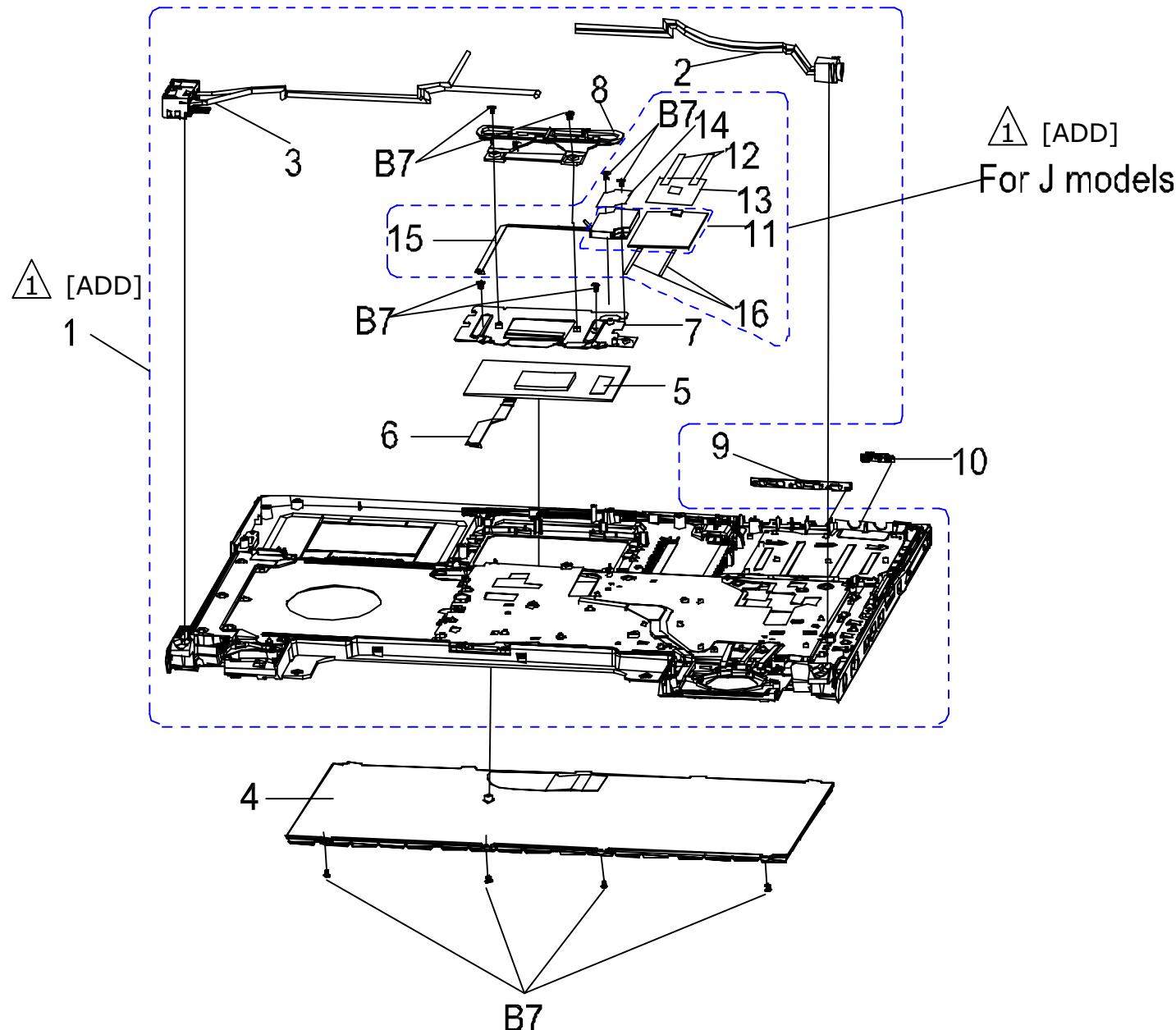


# S-1. SCREWS



<u>Ref.No.</u>	<u>Part No</u>	<u>Description</u>
B1	4-654-811-01	SCREW M3
B2	2-582-816-01	APPEARANCE SCREW M2
B3	2-590-600-01	SCREW (M2), EXTERIOR VIEW
B4	4-645-214-61	GRIP, M2
B5	4-673-018-02	SCREW, SPECIAL HEAD
B6	4-671-538-01	SCREW, SPECIAL HEAD
B7	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP

# P-1. Palmrest



## **P-1. Palmrest**

P-1

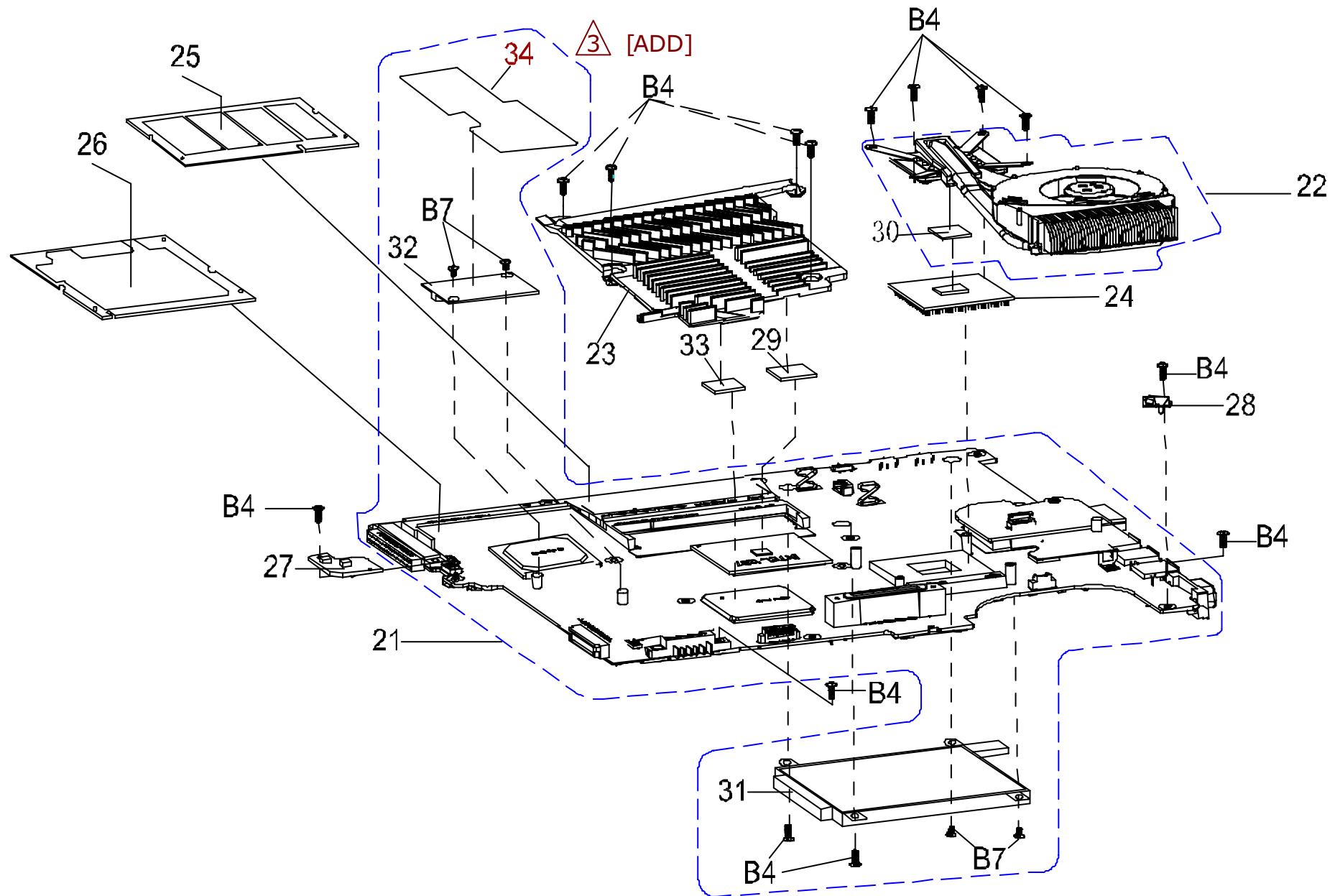
<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
2	1-963-519-11	MS01 CABLE DC IN
6	1-830-442-21	MS03 TOUCHPAD FFC
7	X-2067-819-1	MS03 SUBASSY TOUCHPAD BRACKET
8	2-582-765-01	MS01 TOUCHPAD BUTTON
B7	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP

\* :CTO Mode



## **M-1. Main Board**

M-1



## **M-1. Main Board**

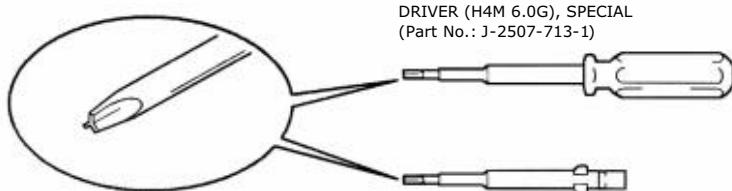
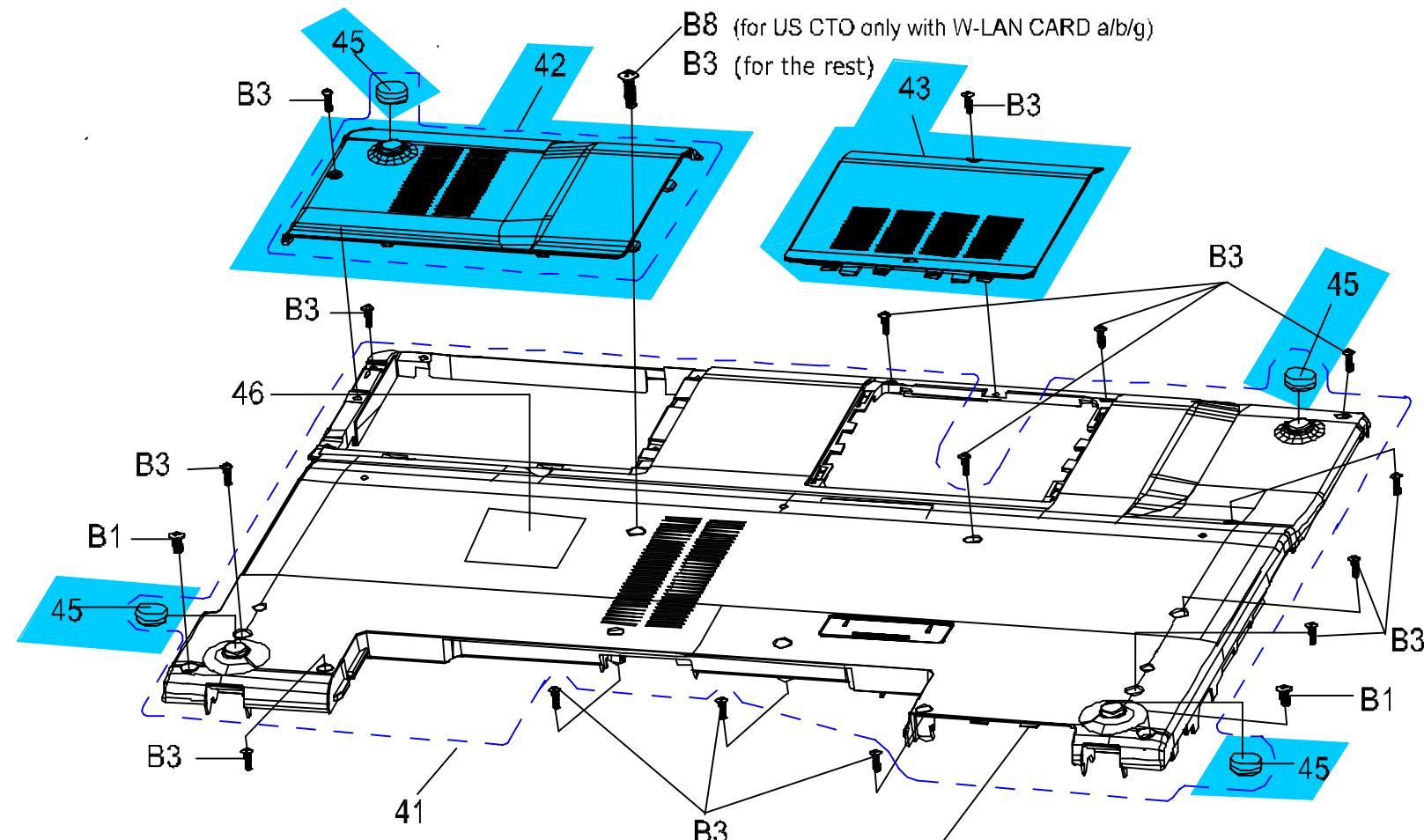
M-1

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
22	A-1093-218-A	MS01 ASSY THERMAL
23	A-1139-737-A	MS03 THERMAL VGA
27	A-1117-455-A	MS02 PWA ANTENNA
28	2-546-280-01	MS01 DC IN BRACKET
29	2-592-555-01	MS01 NORTHBIDGE THERMAL PAD
30	2-592-554-01	THERMAL SHEET
32	1-417-539-12	MDC MODULE
<b>34</b>	<b>2-672-581-01</b>	<b>MS03 SHELTER INLET MB</b>
B4	4-645-214-61	GRIP, M2
B7	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP

\* : CTO Mode

△  
[MA]

△2  
[MA]

**B-1.Bottom**

DRIVER (H4M 6.0G), SPECIAL  
(Part No.: J-2507-713-1)

BIT (H4 5.0G), SPECIAL  
(Part No.: J-2507-712-1)

Note: For B8 removal, a special Tool Shown as right is needed.

## **B-1. Bottom**

B-1

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
41	X-2067-818-1	MS03 ASSY CABINET BOTTOM
42	X-2050-587-2	& MS02 ASSY HDD DOOR
43	X-2050-582-1	& MS01 ASSY RAM DOOR
44	2-546-276-01	MS01 COVER THERMAL OUTLET
45	2-546-274-02	& MS01 RUBBER FOOT
B1	4-654-811-01	SCREW M3
B3	2-590-600-01	SCREW (M2), EXTERIOR VIEW

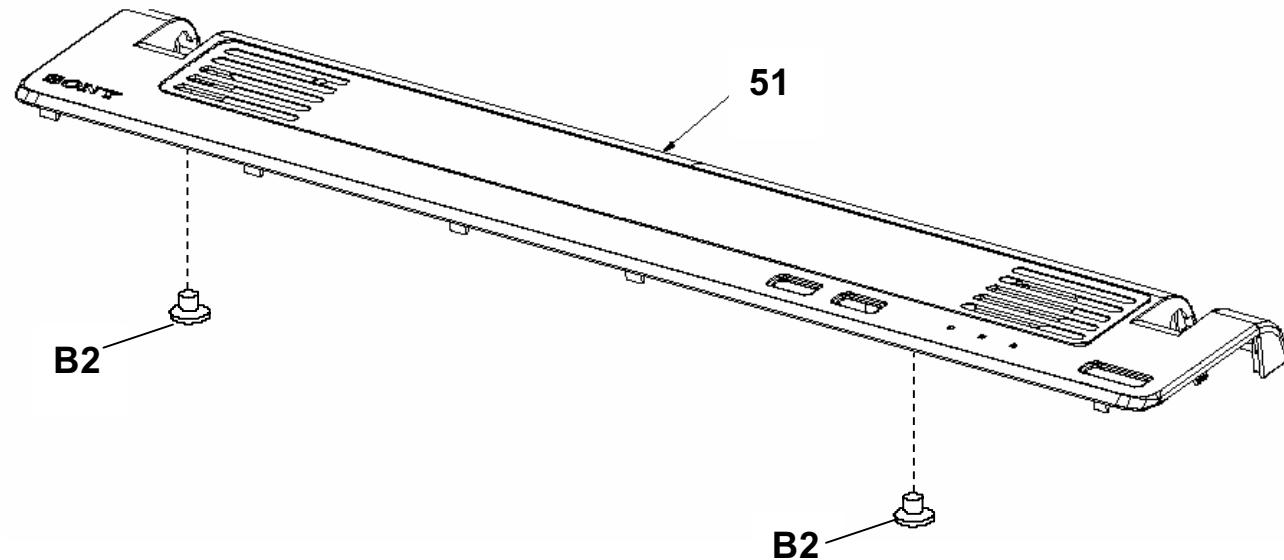
\* : CTO Mode

△  
[MA] △  
[MA]

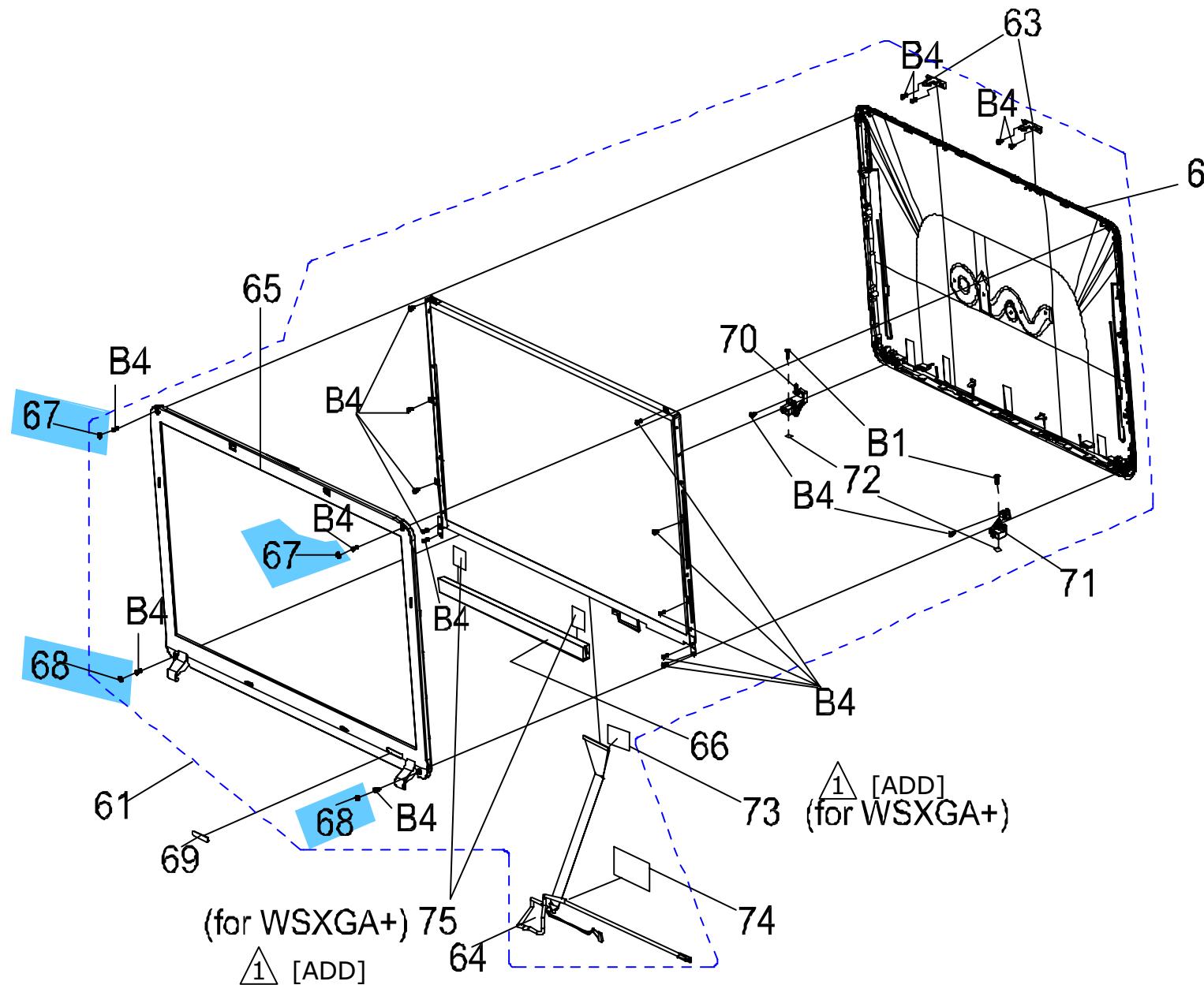
2  
[MA]

# C-1. CABINET KBCOVER

C-1



<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
51	X-2102-593-1	MS02 ASSY CABINET KBCOVER
B2	2-582-816-01	APPEARANCE SCREW M2



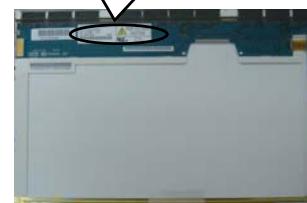
# L-1. LCD

**L-1**

Ref.No.	Part No.	Description
63	2-546-200-01	MS01 LCD HOOK
65	X-2050-578-1	MS01 SUBASSY LCD BEZEL
67	2-546-209-01	& MS01 LCD RUBBER ROUND
68	2-587-393-01	& MS01 LCD RUBBER ROUND DOWN
70	2-546-203-01	MS01 HINGE LEFT
71	2-546-204-01	MS01 HINGE RIGHT
72	2-658-471-01	MS01 HINGE RUBBER
74	2-658-470-01	MS01 LCD AL FOIL 15*40*0.15
B1	4-654-811-01	SCREW, M3
B4	4-645-214-61	GRIP, M2

△[ADD] (\*1) [Notice for replacing LCD from CPT type to QDI type]  
When replacing LCD from CPT to QDI, the DIP switch setting must be changed from CPT to QDI.

MODEL NO.CLA154WA02B



Type CPT (rear view)

MODEL NO.QD15TL03



Type QDI (rear view)

\* : CTO Model

Ref.No.	Part No.	Description	J		AM												EU		AO																												
			FS52B	FS22B	FS32B	FS22VB	FS22S	FS22PS *	FS22S *	FS780	FS760	FS740	FS720	FS775P	FS745P	FS770	FS750P	FS730	FS715	FS742	FS710	FS770FG	FS750F	FS730F	FS715F	FS755FP	FS740Q	FS790P *	FS790B *	FS790Q *	FS790BH *	FS315Z	FS395VP	FS315M	FS315B	FS315E	FS315SR	FS315MR	FS315H	FS315S	FS38C	FS35C	FS38GP	FS38SP	FS38LP	FS38TP	FS35GP
61	A-1133-650-A	MS02 ASSY LCD (HC-SXGA+-WLAN)(W)																																													
	A-1127-878-A	MS02 ASSY LCD (HC-SXGA+-WLAN)(G)																																													
	A-1133-651-A	MS02 ASSY LCD (HC-WXGA-WLAN )(W)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
	A-1127-879-A	MS02 ASSY LCD (HC-WXGA-WLAN )(G)																																													
	A-1133-649-A	MS02 ASSY LCD (WLAN-1LAMP)(W)(QDI)																																													
	A-1127-877-A	MS02 ASSY LCD (WLAN-1LAMP)(G)(QDI)																																													
62	X-2048-459-1	MS01 SUBASSY LCD HOUSING (W)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
	A-1128-260-A	MS02 SUBASSY LCD HOUSING (G)																																													
64	1-963-756-21	MS02 LCD CABLE (dual)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
	1-963-755-21	MS02 LCD CABLE (single)																																													
66	1-479-137-22	LCD INVERTER NEC-TOKIN (dual)																																													
	1-479-137-13	LCD INVERTER NEC-TOKIN (dual)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	1-478-805-31	LCD INVERTER NEC-TOKIN (single)																																													
69	2-652-251-01	LABEL ID(E)																																													
	2-652-251-11	LABEL ID(E)																																													
	2-652-251-31	LABEL ID(E)																																													
	2-652-251-41	LABEL ID(E)																																													
	2-652-251-51	LABEL ID(E)																																													
	2-652-251-61	LABEL ID(E)																																													
	2-652-251-71	LABEL ID(E)																																													
	2-652-251-81	LABEL ID(E)																																													
	2-652-251-91	LABEL ID(E)																																													
	2-652-247-01	LABEL ID(J)	●																																												
	2-652-247-11	LABEL ID(J)		●																																											
	2-652-247-21	LABEL ID(J)			●																																										
	2-652-247-31	LABEL ID(J)				●																																									
	2-652-247-41	LABEL ID(J)					●																																								
	2-652-360-01	LABEL ID(JCTO)						●																																							
	2-652-360-11	LABEL ID(JCTO)							●																																						

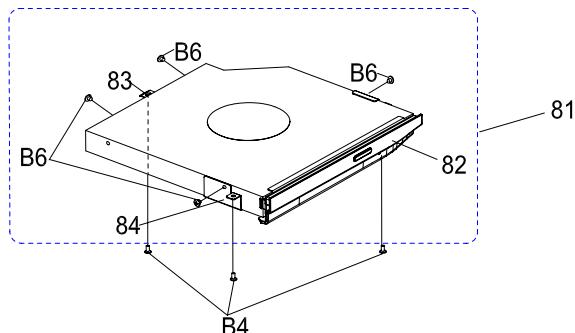
[MA] △  
[MA] △

\* : CTO Model

2  
[MA]

2  
[MA]

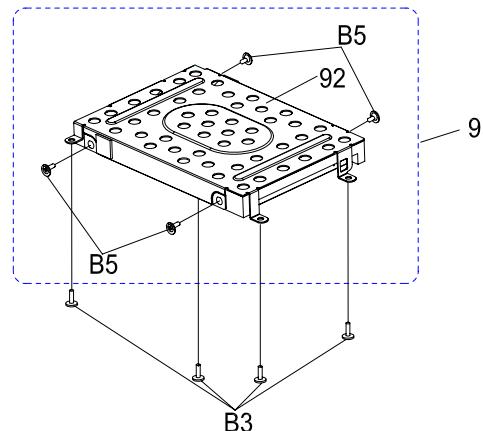
83	2-546-291-01	MS02 ODD BRACKET BACK
84	2-546-292-01	MS02 ODD BRACKET FRONT
B4	4-645-214-61	GRIP, M2
B6	4-671-538-01	SCREW, SPECIAL HEAD



\*: CTO Mode

△2  
△2  
mA]  
mA]

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
92	A-1092-487-A	MS01 SUBASSY HDD BRACKET
B3	2-590-600-01	SCREW (M2), EXTERIOR VIEW
B5	4-673-018-02	SCREW, SPECIAL HEAD



\*: CTO Mode

2  
[MA]

## A-1. ACCESSORIES

2001  
Memory Card Adapter



2006  
AC Adapter



2004  
Floppy Disk Drive



2007  
Battery Pack



2005  
Power Cord



2030  
Port Replicator



2031  
SPEAKER



2035  
RAY-CATCHER



2032  
Adapter, AC (SPEAKER)



2034  
CORD, POWER (SPEAKER)



2036  
REMOTE COMMANDER



2037  
RF CORD WITH F TERMINAL



Refer to A-2. Accessories

- 1) The Ref. 2030-2037 are included only in the models supplied with the Port Replicator.

## **A-1. ACCESSORIES**

A-1

\* : CTO Mode

2  
[MA]

2  
[MA]

## **A-1. ACCESSORIES**

A-1

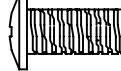
\* : CTO Mode

2  
MA]

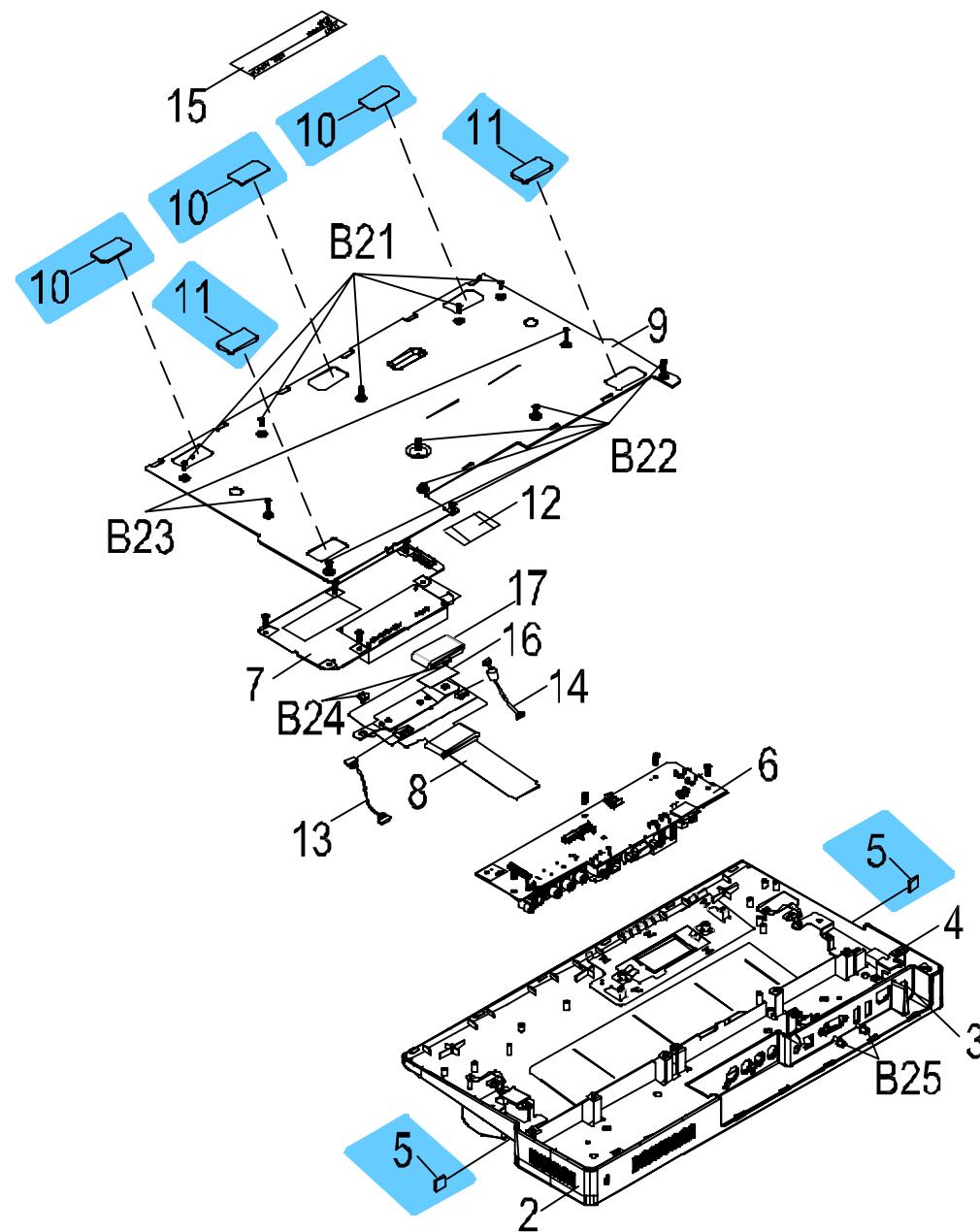
2  
MA]

A-2

## A-2. ACCESSORIES

B21		M3*8 Black
B22		M2*6 Black
B23		M2*8 Black
B24		M3*5 Black
B25		M2*2 Silver

Note: Screw are supplied with B20,a whole set



## **A-2. ACCESSORIES (Port Replicator)**

A-2

\* : CTO Model

2

## **T-1. SUBSTITUTION PARTS LIST**

T-1

**NOTE:**

Please order below substitution parts if the parts with the same Ref. No. in page 4-2 to 4-17 are not available.

\* : CTO Model

2  
[MA]

[MA] ▲

## **T-1. SUBSTITUTION PARTS LIST**

T-1

\* : CTO Mode

[MA]



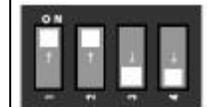
[CHG]

# DIP Switch

The DIP switch setting is following table.

J	VGN-FS52B 	VGN-FS22B 	VGN-FS32B 	VGN-FS22VB 	VGN-FS92S 	VGN-FS92PS*/FS92S* 	
AM	VGN-FS780 	VGN-FS760P 	VGN-FS740  (QDI) (CPT)	VGN-FS720  (QDI) (CPT)	VGN-FS775P 	VGN-FS745P 	VGN-FS770 
	VGN-FS750P 	VGN-FS730  (QDI) (CPT)	VGN-FS715  [MA]  (QDI) (CPT)	VGN-FS742 	VGN-FS710  [MA]  (QDI) (CPT)	VGN-FS770FG 	VGN-FS750F  (QDI) (CPT)
	VGN-FS730F  (QDI) (CPT)	VGN-FS715F  (QDI) (CPT)	VGN-755FG  (QDI) (CPT)	VGN-FS740FP  (QDI) (CPT)	VGN-FS710FP  (QDI) (CPT)	VGN-FS740 	VGN-FS740  (QDI) (CPT)
	VGN-FS790P*/FS790B*/FS790*/FS790BH*  (QDI) (CPT)						
EU	VGN-FS15Z 	VGN-FS395VP 	VGN-FS315M 	VGN-FS315B 	VGN-FS315E 	VGN-FS315SR 	VGN-FS315MR 
	VGN-FS315H 	VGN-FS315S 					
AO	VGN-FS38C 	VGN-FS35C 	VGN-FS38GP 	VGN-FS38SP 	VGN-FS38LP 	VGN-FS38TP 	VGN-FS35GP  (QDI) (CPT)
	VGN-FS35SP  (QDI) (CPT)	VGN-FS38LP 	VGN-FS38TP 				

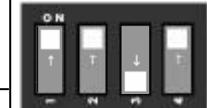
15.4inch WSXGA +(HC)



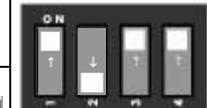
15.4inch WXGA(HC)



15.4inch WXGA(QDI)



15.4inch WXGA(CPT)



Note: When replacing LCD from CPT to QDI, please change the DIPs switch from 15.4inch WXGA(CPT) to 15.4inch WXGA (QDI).

The DIP switch setting is different depending the types of LCD.

Set the DIP switch of CTO model in accordance with the [FOR CTO MODEL].

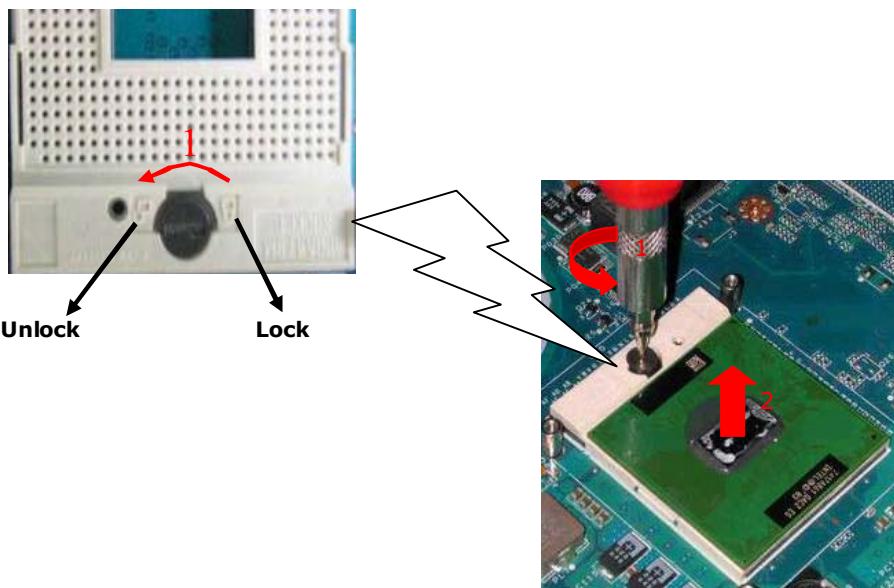
# CHAPTER 5.

## OTHERS

### 5-1. Replacing the CPU

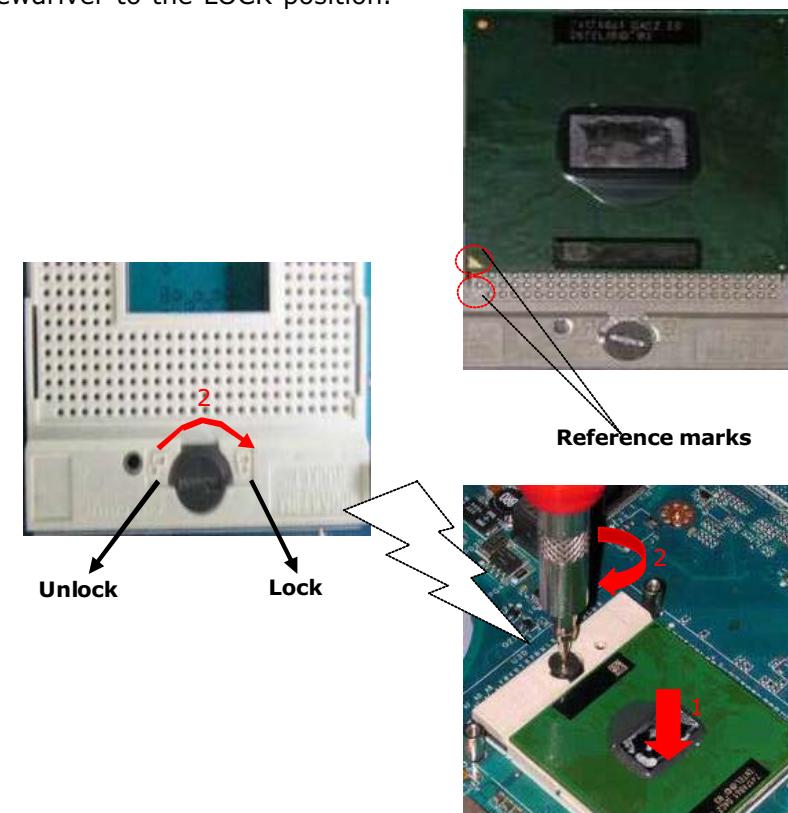
#### 1. Removing the CPU

1. Insert a flat-blade screwdriver into the notch as shown illustration and rotate it so that the protrusion comes to the lock release position.
2. Pull the CPU gently upward to lift it out of the CPU socket



#### 2. Installing the CPU

1. Align the triangle reference mark of the mark the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
2. Insert the flat head (-) screwdriver into the specified position and rotate the screwdriver to the LOCK position.



## 5-2. Wiring the W-LAN Cable

\* The MS02 PWA ANTENNA is installed also in the models without Wireless LAN.  
Refer to the instruction below to see how to wire the CABLE.



Using KAPTION TAPE to secure the Cable.



VGN-FS52B/FS22B/FS32B/FS22VB/FS92S/FS92PS/FS92S (J)  
 VGN-FS780/FS760/FS740/FS750P/FS730/FS715/FS742/FS710/FS770FG/FS750F/FS730F/FS715F/FS755FP/FS740FP/FS710FP/FS760Q/FS740Q/FS790P/FS790B/FS790BH (AM)  
 VGN-FS315Z/FS395VP/FS315M/FS315B/FS315E/FS315SR/FS315MR/FS315H/FS315S (EU)  
 VGN-FS38C/FS35C/FS38GP/FS38SP/FS38LP/FS38TP/FS35GP/FS35SP/FS35LP/FS35TP (AO)

### List of VGN-F Series (As of Nov, 2005 )

Service Manual	Model Name													
	J		AM				EU			AO				
9-876-414-XX	VGN-FS70B	VGN-FS20	VGN-FS570	VGN-FS540P	VGN-FS500	*	VGN-FS550F	VGN-FS195XP	VGN-FS115M	VGN-FS115B	VGN-FS18CP	VGN-FS18SP	VGN-FS15GP	VGN-FS15TP
	VGN-FS50B	VGN-FS90PS *	VGN-FS550	VGN-FS530B	VGN-FS500P	*		VGN-FS115Z	VGN-FS115E	VGN-FS115ZR	VGN-FS15C	VGN-FS18LP	VGN-FS15SP	
	VGN-FS30B	VGN-FS90S *	VGN-FS550P	VGN-FS520B	VGN-FS500B	*		VGN-FS115S	VGN-FS195VP	VGN-FS115MR	VGN-FS18GP	VGN-FS18TP	VGN-FS15LP	
9-876-425-XX	VGN-FS71B	VGN-FS21	VGN-FS680	VGN-FS645P	VGN-FS640FP	VGN-FS690	*	VGN-FS295XP	VGN-FS215MR		VGN-FS28C	VGN-FS28TP		
	VGN-FS51B	VGN-FS91PS *	VGN-FS660P	VGN-FS670FG	VGN-FS610FP			VGN-FS215Z	VGN-FS285M		VGN-FS25C	VGN-FS25GP		
	VGN-FS31B	VGN-FS91PSY *	VGN-FS660	VGN-FS650F	VGN-FS620P			VGN-FS215M	VGN-FS285B		VGN-FS28GP	VGN-FS25SP		
	VGN-FS21B	VGN-FS91S *	VGN-FS640	VGN-FS630F	VGN-FS620			VGN-FS295VP	VGN-FS285E		VGN-FS28SP	VGN-FS25LP		
			VGN-FS675P	VGN-FS615F	VGN-FS630			VGN-FS215B	VGN-FS215S		VGN-FS28LP	VGN-FS25TP		
			VGN-FS635B	VGN-FS640Q	VGN-FS690P	*		VGN-FS215E	VGN-FS285H					
			VGN-FS625B	VGN-FS655FP	VGN-FS690B	*		VGN-FS215SR						
9-876-443-XX	VGN-FS52B	VGN-FS92S	VGN-FS780	VGN-FS750P	VGN-FS730F	VGN-FS790P	*	VGN-FS315Z	VGN-FS315SR		VGN-FS38C	VGN-FS38TP		
	VGN-FS22B	VGN-FS92PS *	VGN-FS760	VGN-FS730	VGN-FS715F	VGN-FS790B	*	VGN-FS395VP	VGN-FS315MR		VGN-FS35C	VGN-FS35GP		
	VGN-FS32B	VGN-FS92S *	VGN-FS740	VGN-FS715 	VGN-FS755FP	VGN-FS790	*	VGN-FS315M	VGN-FS315H		VGN-FS38GP	VGN-FS35SP		
	VGN-FS22VB		VGN-FS720	VGN-FS742	VGN-FS740FP	VGN-FS790BH	*	VGN-FS315B	VGN-FS315S		VGN-FS38SP	VGN-FS35LP		
			VGN-FS775P	VGN-FS710 	VGN-FS710FP			VGN-FS315E			VGN-FS38LP	VGN-FS35TP		
			VGN-FS745P	VGN-FS770FG	VGN-FS760Q									
			VGN-FS770	VGN-FS750F	VGN-FS740Q									

\*: CTO Model

 Additional Model

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2005KF00-1

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# Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver.1	2005.09.16	First Edition	
-02	Ver.2	2005.10.03	△1 Page1-1,Page1-2, Page4-3, Page4-4, Page4-6, Page4-8, Page4-10, Page4-11, Page4-14, Page4-16, Page4-17, Page4-20, Page4-21, Page4-22	N2005_052CK
-03	Ver.3	2005.10.11	△2 Front Page (Model Line Up), Page1-1, Page4-4,Page4-6,Page4-8,Page4-11, Page4-12,Page4-13,Page4-14,Page4-16, Page4-17,Page4-19,Page4-20,Page4-21, Page4-22,Back Cover	N2005_053AK
-04	Ver.4	2005.11.16	△3 Page4-4,Pagr4-5,Page4-6,Page4-17, Page4-20	N2005_068CK
<Remarks>				